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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/913,707	12/12/2001	Stuart Harbron	1904-004	2683
9629 7	7590 05/18/2004		EXAMINER	
MORGAN LEWIS & BOCKIUS LLP			CEPERLEY, MARY	
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
	,		1641	
			DATE MAILED: 05/18/2004	\wp

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application N .	Applicant(s)			
Office Astion Comments	09/913,707	HARBRON, STUART			
Office Action Summary	Examiner	Art Unit			
	Mary (Molly) E. Ceperley	1641			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	·				
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b) This action is non-final.				
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-25 is/are rejected. 7) ⊠ Claim(s) 9-11 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			
S. Patent and Trademark Office					

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1) The specification must be amended to include a section entitled "Brief Description of the Drawings".

- *2)* Applicant is requested to provide an Information Disclosure Statement providing, at a minimum, *a)* a copy of the Harbron et al Analytical Biochemistry (1992) article cited as an "A" reference in the corresponding search report (reference not provided to the examiner) and *b)* all references cited in the specification which are *specifically pertinent* to the instantly claimed invention. Applicant, if he knows, is requested to indicate the identity of each of the references designated "D1" through "D5" in the International Preliminary Examination Report.
- *3)* Although specific claims are cited in the rejections below, these rejections are also applicable to all other claims in which the noted problems/language occur.
 - 4) The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- *5)* Claims 1-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a) The method of detection claims are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: a required step for contacting and binding the two members of a specific binding pair and; without this step no "binding event" would have occurred which could be "detected".

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- b) In claim 7, the "1,2-dioxetane compound" must be "an esterifiable moiety" (since this compound is not X = H). However, it is unclear that the "1,2-dioxetane compound" is "esterifiable".
- c) In claim 3, it is unclear what is meant by the term "a derivative" since the required function/nature of the "derivative" is unspecified. See also, the term "derivative" in claims 13 and 16-22.
- **d)** In claim 8, there is no antecedent basis in claim 7 for the term "said 1,2-dioxetane phosphate".
- *e)* Claim 14, reciting "NAD" and "NADH", is broader in scope than the term "<u>3'</u> nicotinamide derivative" of independent claim 13.
- The exact scope of claim 16 cannot be determined since the required components of the "detection system" are unspecified.
- 6) Claims 9-11 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot be dependent from another multiple dependent claim (see claim 4). See MPEP § 608.01(n).
 - 7) Fisher et al (U.S. 6,362,328), col. 2, lines 23-67, is cite to further show the state of the art.
- 8) An inquiry of a general nature which is <u>not related to the prosecution on the merits</u> should be directed to Technology Center 1600 telephone number (571) 272-1600. The general fax number for the USPTO is (703) 872-9306.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary (Molly) E. Ceperley whose telephone number is (571) 272-0813. The examiner can normally be reached from 8 a.m. to 4:30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Long V. Le, can be reached on (571) 272-0823.

May 14, 2004

Mary E. Ceperley
Mary (Molly) E. Ceperley
Primary Examiner

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